1 / 7

FIG. 1

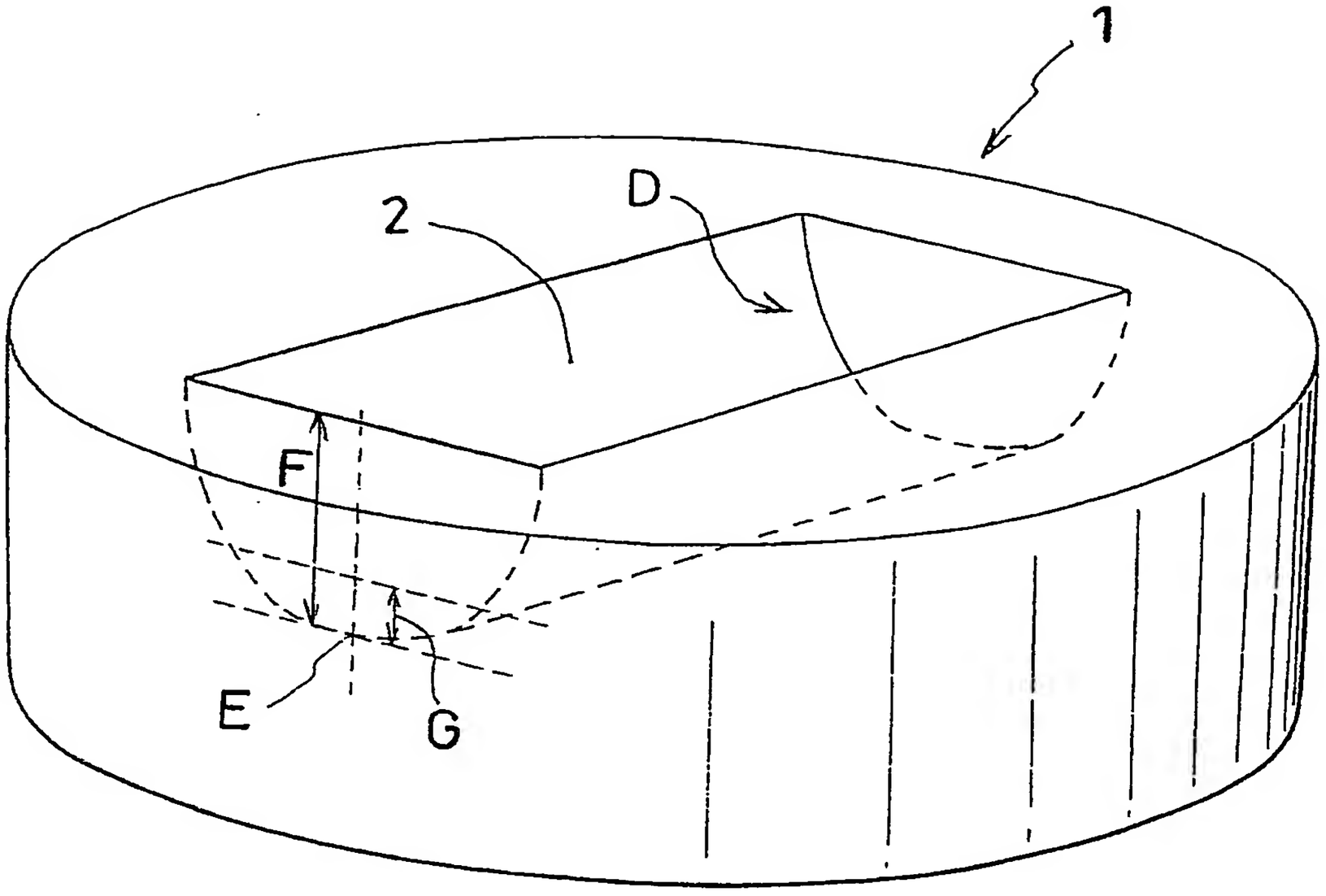


FIG. 2

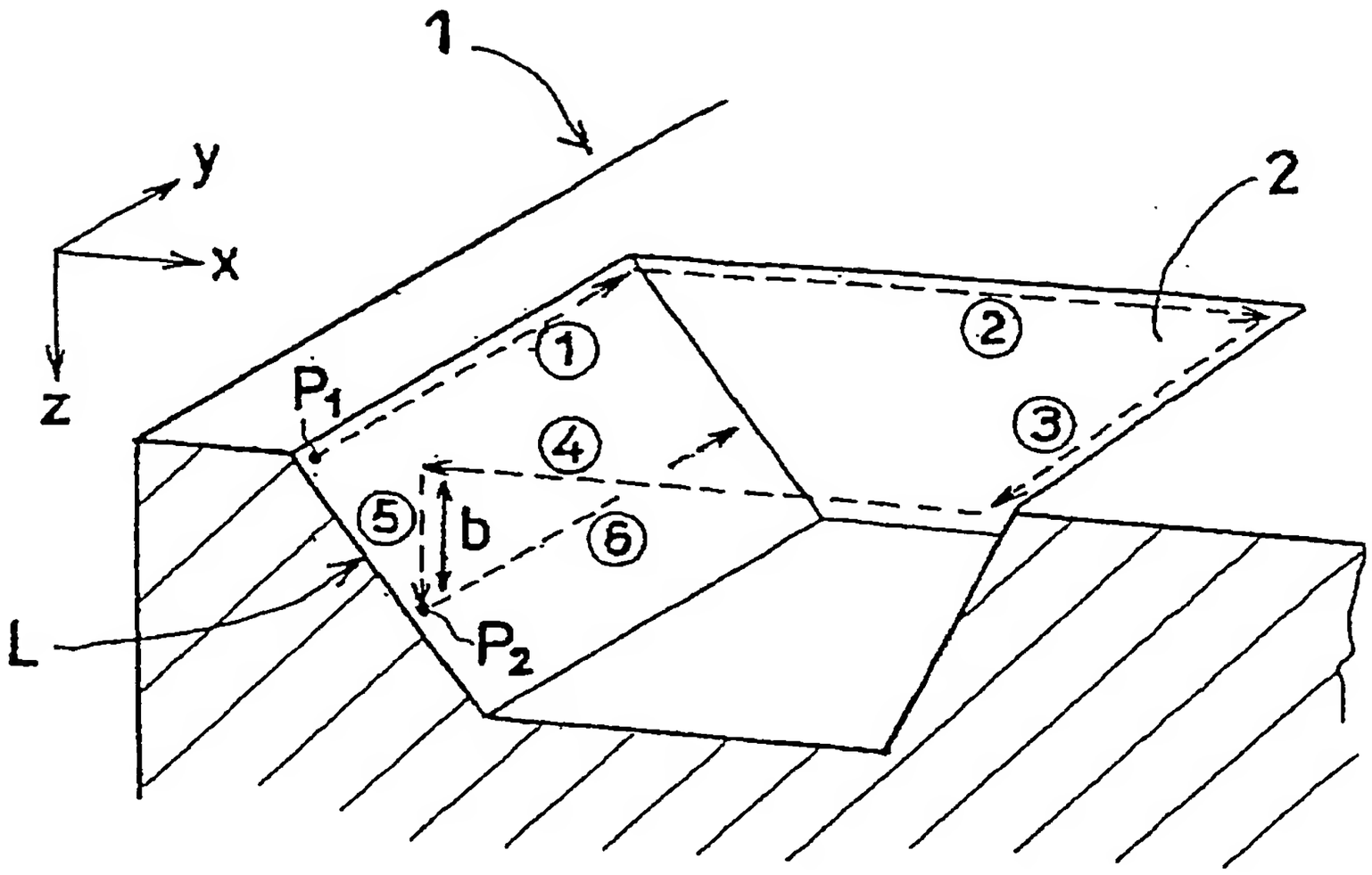


FIG. 3

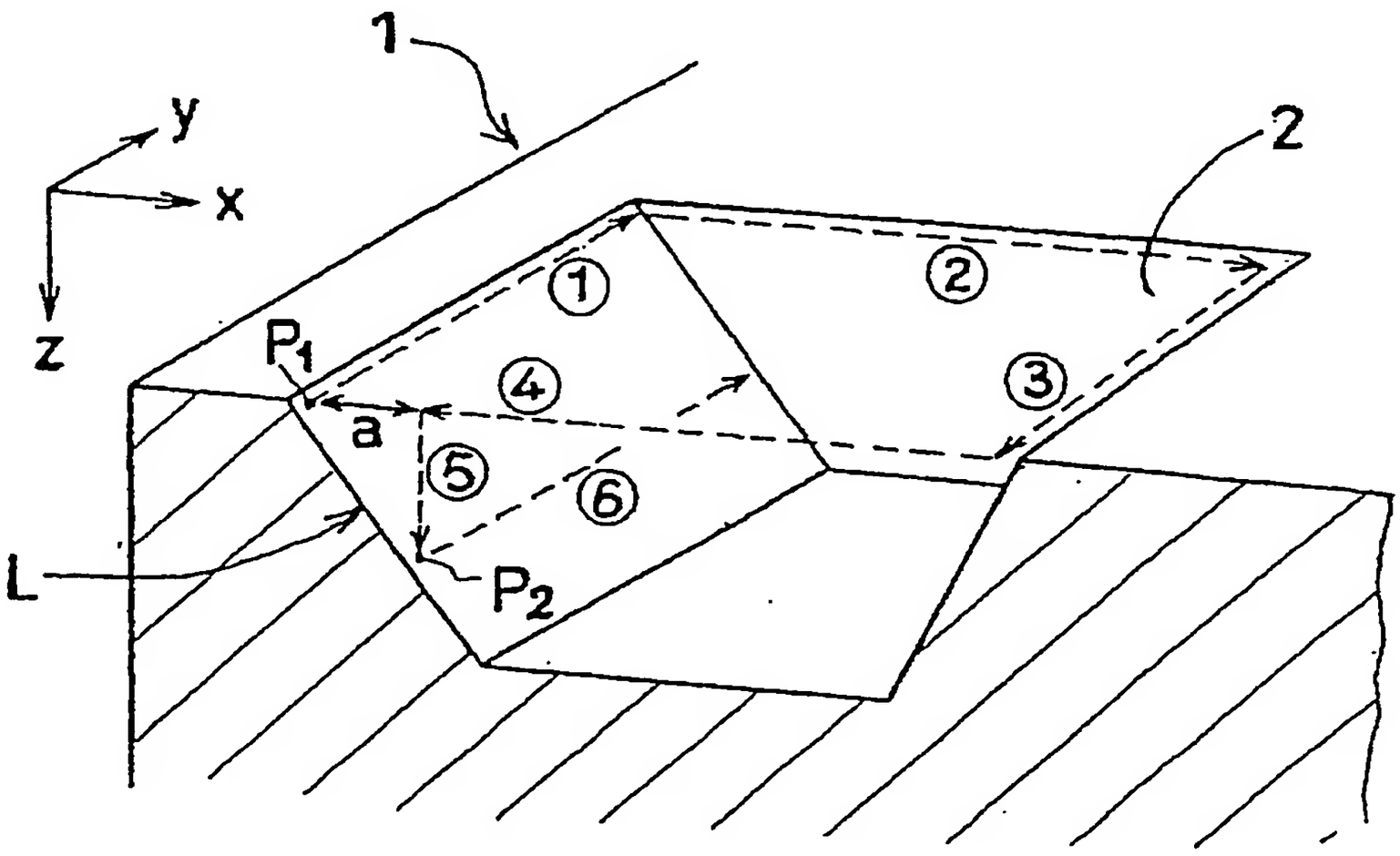


FIG. 4

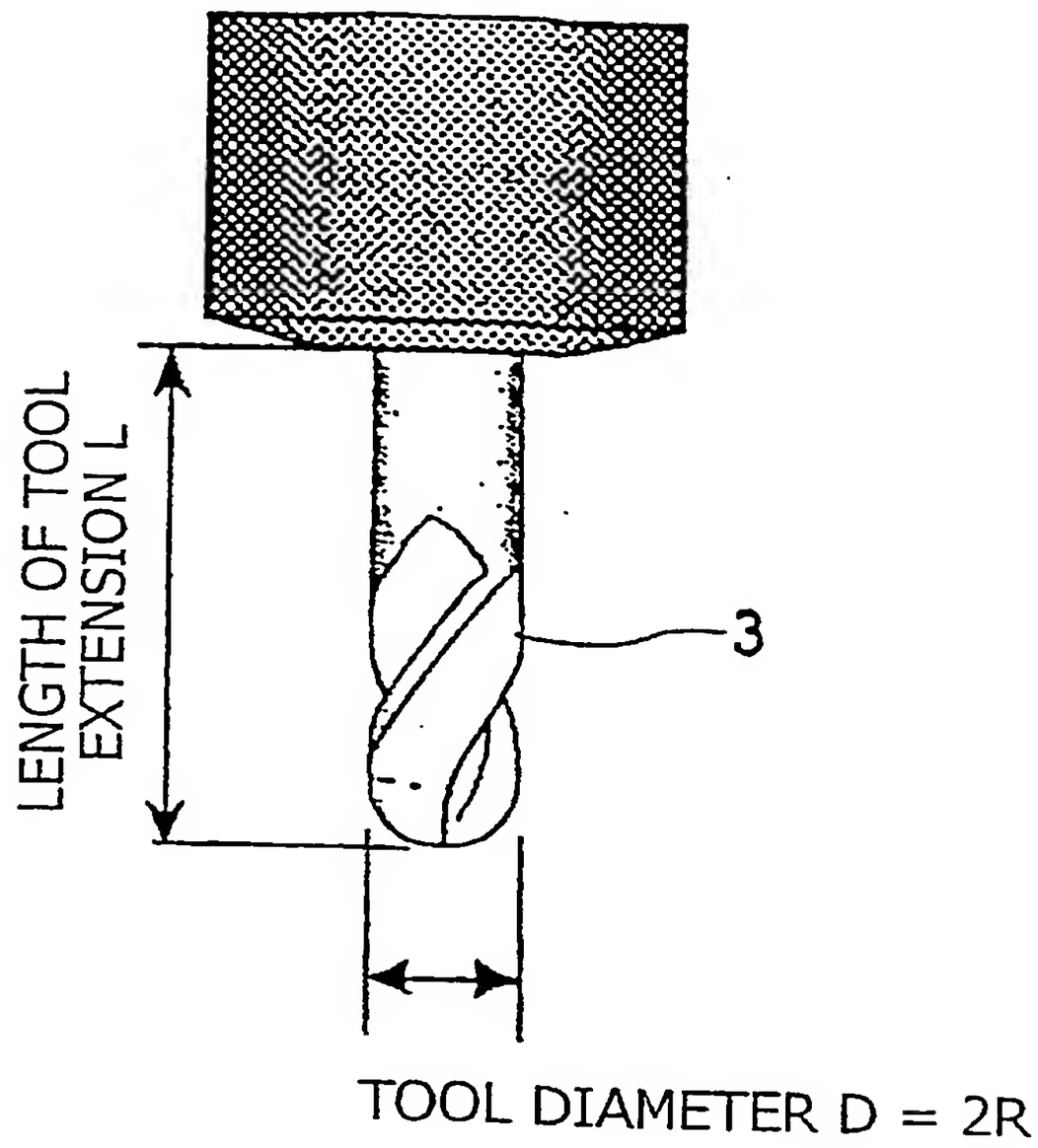

LENGTH OF TOOL EXTENSION L
3
TOOL DIAMETER D = 2R

FIG. 5

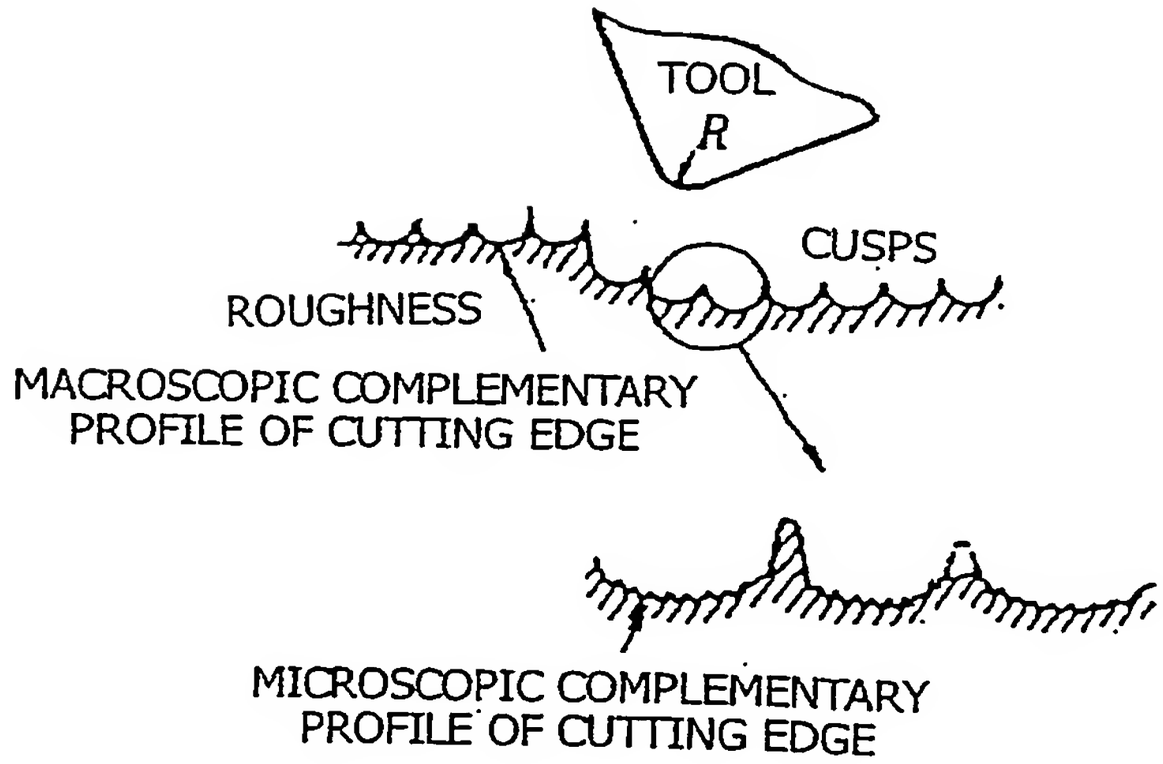

TOOL
R
CUSPS
ROUGHNESS
MACROSCOPIC COMPLEMENTARY PROFILE OF CUTTING EDGE
MICROSCOPIC COMPLEMENTARY PROFILE OF CUTTING EDGE

FIG. 6

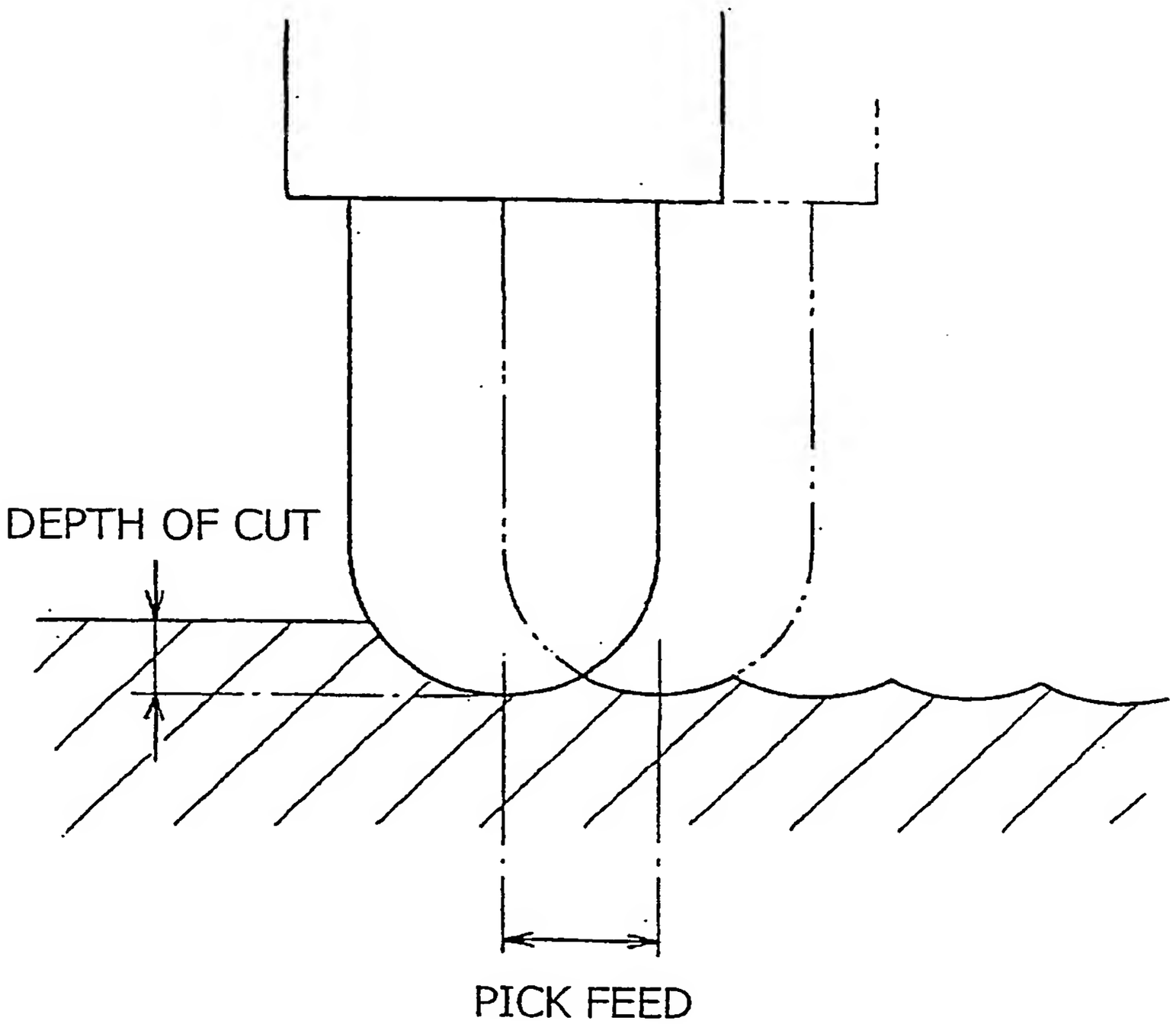
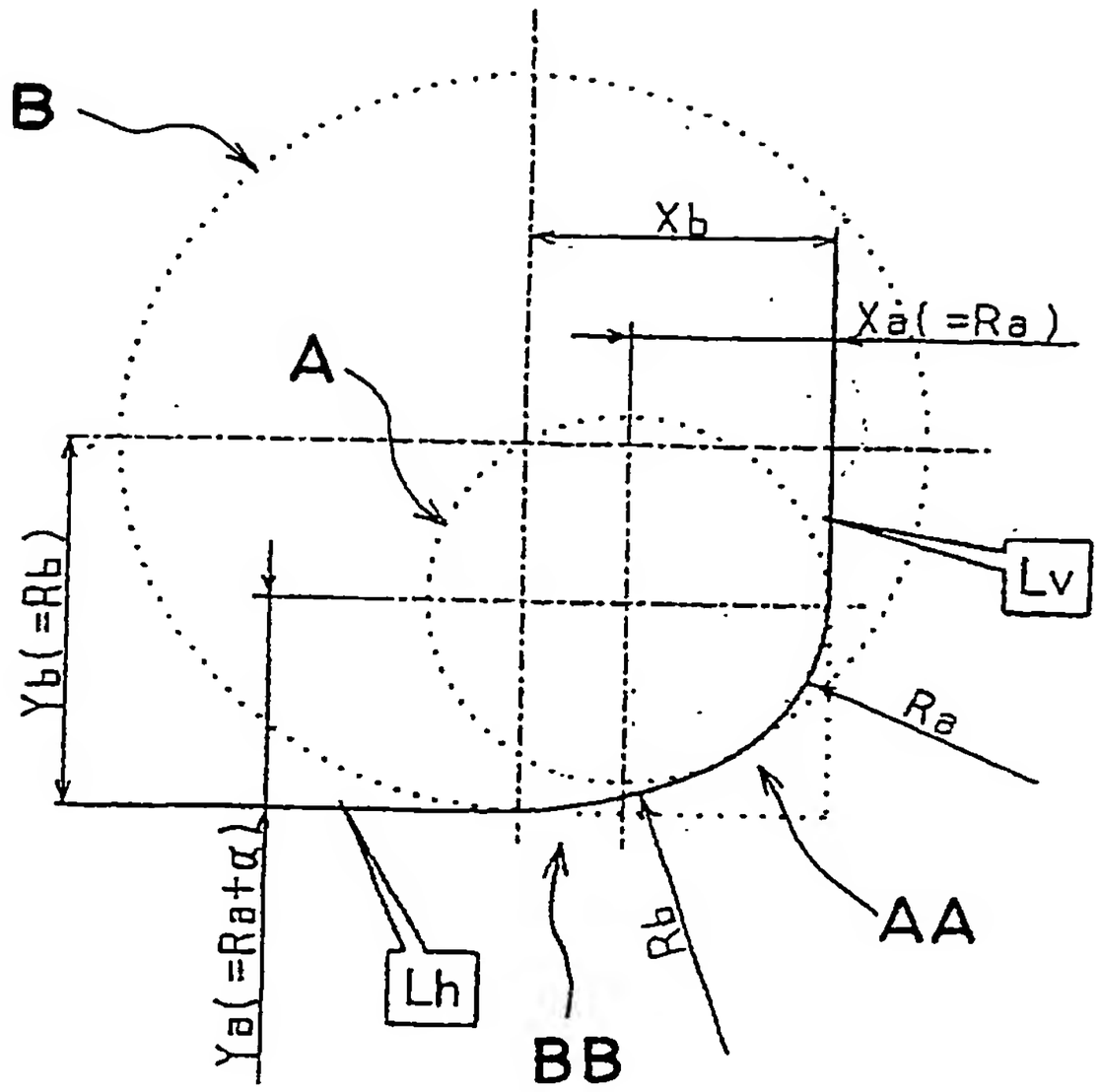
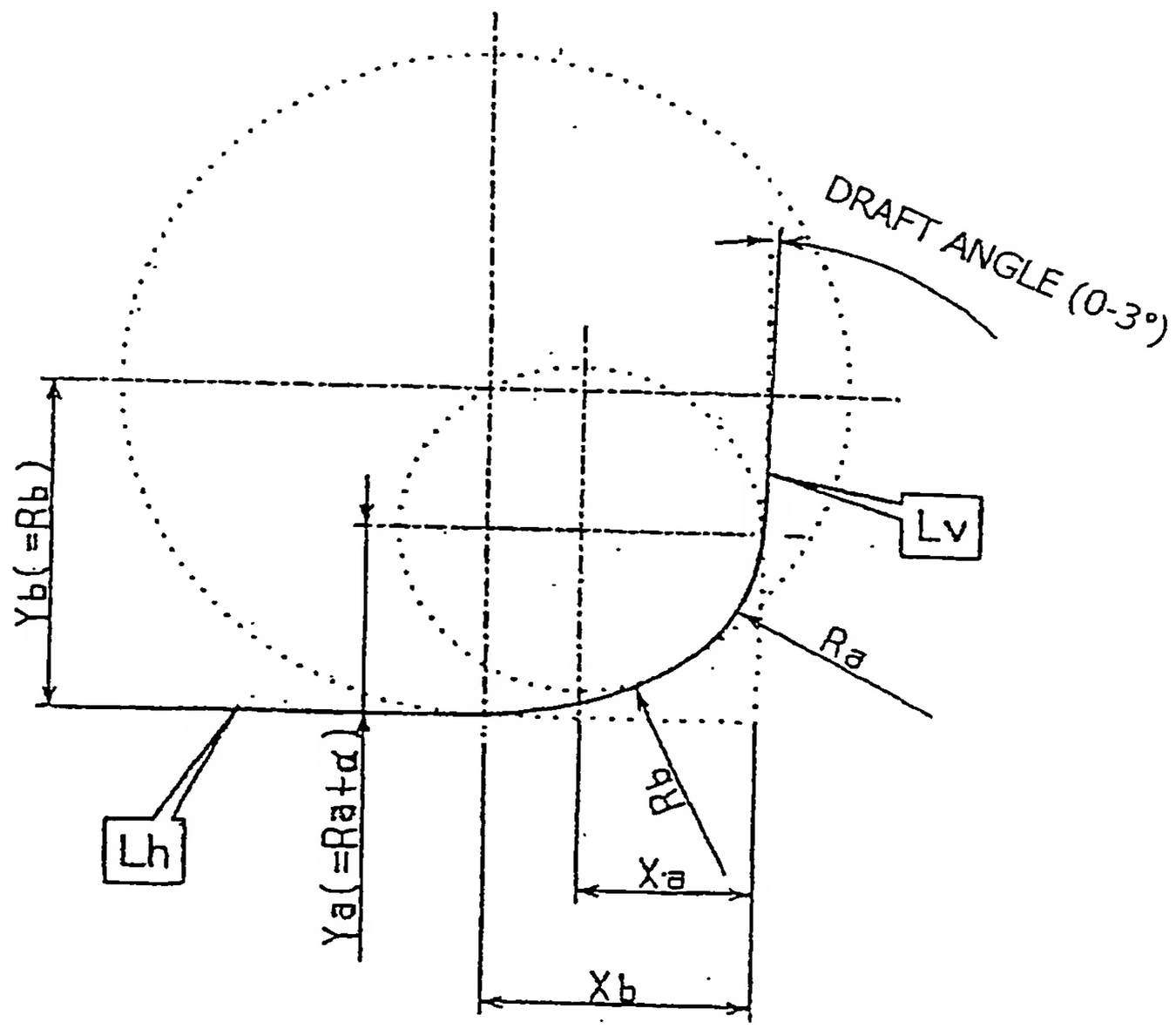


FIG. 7



HERE,
α IS DETERMINED WITH REFERENCE TO DIMENSIONAL TOLERANCE OF Ra;
Ra IS AN ARC OF A CIRCLE TANGENT TO Lv;
Rb IS AN ARC OF A CIRCLE TANGENT TO Lh AND Ra; AND
Xb IS AUTOMATICALLY DETERMINED FROM OTHER DIMENSIONS.

FIG. 8

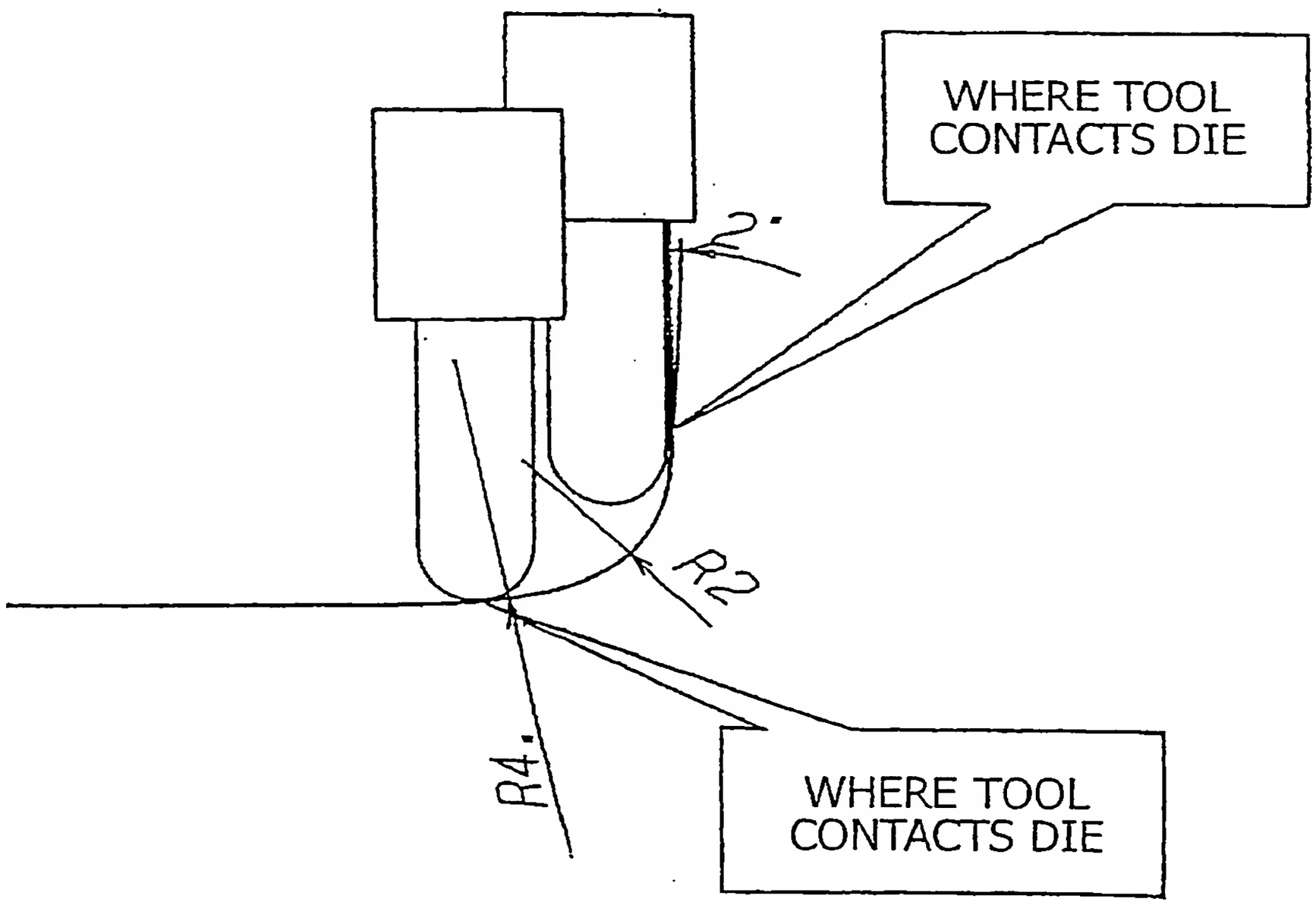


HERE,
α IS DETERMINED WITH REFERENCE TO DIMENSIONAL TOLERANCE OF Ra;
Ra IS AN ARC OF A CIRCLE TANGENT TO Lv;
Rb IS AN ARC OF A CIRCLE TANGENT TO Lh AND Ra; AND
Xa AND Xb ARE AUTOMATICALLY DETERMINED FROM OTHER DIMENSIONS.

FIG. 9

CONTINUOUS Ra CURVATURE;
Ra RADIUS RANGE 60-85%

FIG. 10


WHERE TOOL
CONTACTS DIE
R2
R4
WHERE TOOL
CONTACTS DIE